

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/02/2010

Matthew Libby  
Assistant District Attorney, Plymouth County

Dear ADA Libby,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan & Della Saunders.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Khan (Dookhan) was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read "Annie Khan".

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)



## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of analytical instruments.
- \*Maintain the Quality Control of analytical instruments and controls/standards.
- \*Maintain the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Method Development for creating new techniques for the QC Department.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept of Justice – Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts

No. [REDACTED]

Date Analyzed: JUN 26 2010

City: Bridgewater Police Dept.

Officer: Detective CHRISTOPHER SHAW

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 02/11/2010

No. Analyzed:

Gross Wt.: 2.26

Net Weight: 0.08

# Tests: 4AD

Prelim: Heroin

Findings: Heroin to JEF

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Badgewater ANALYST ASD

No. of samples tested:            Evidence Wt.                     

## PHYSICAL DESCRIPTION:

Beige powdered substance  
17 pps

Gross Wt ( ): 0.1061

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 0.0890

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)  
Marquis +  
Froehde's +  
Mecke's +

### Microcrystalline Tests

Gold  
Chloride                       
TLTA ( )                     

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 6-22-10

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR DCS

DATE 6-26-10

Area Percent / Library Search Report

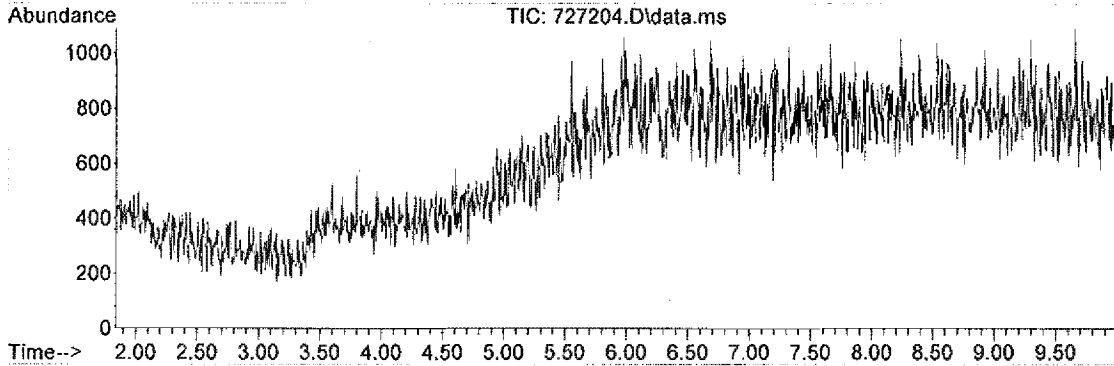
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Operator : DCS  
Date Acquired : 24 Jun 2010 9:44  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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✓ ASD  
12-2-10



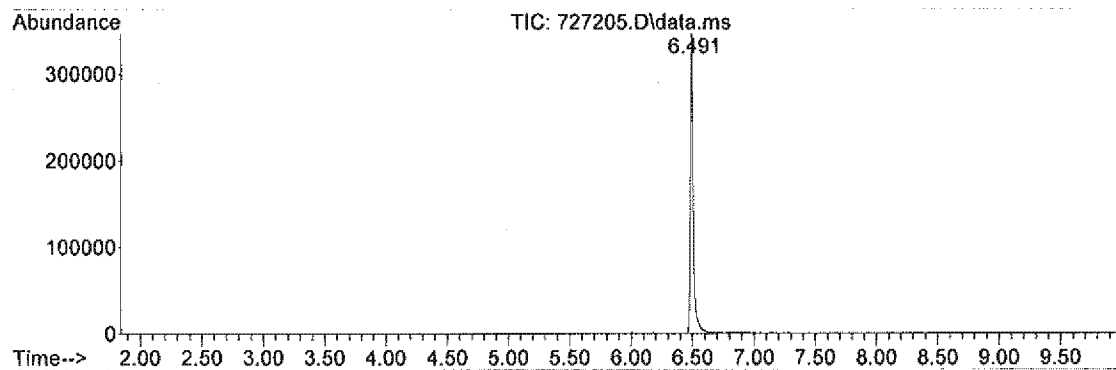
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

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Operator : DCS  
Date Acquired : 24 Jun 2010 9:56  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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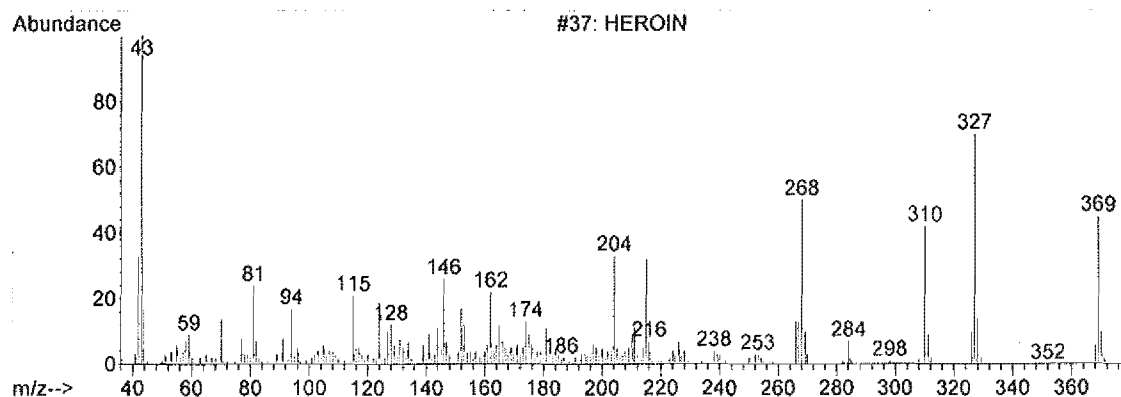
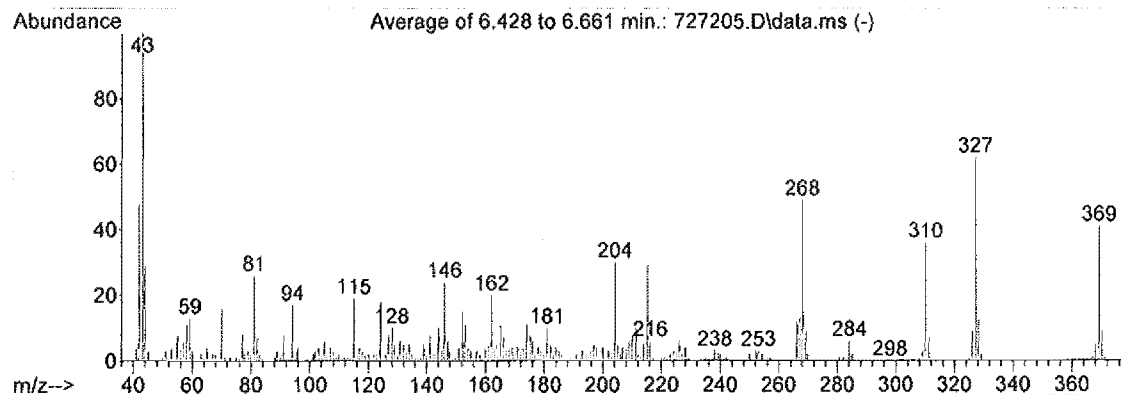
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**Information from Data File:**

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 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.49	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		HEROIN	000561-27-3	99



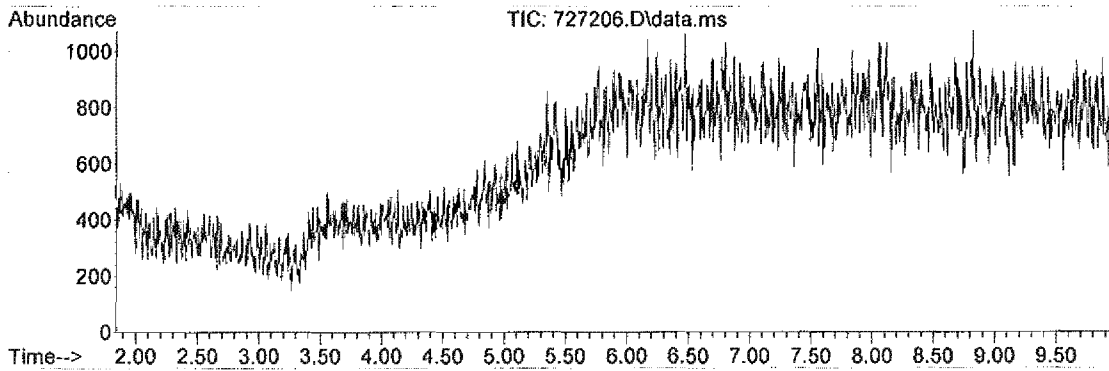
Area Percent / Library Search Report

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Operator : DCS  
Date Acquired : 24 Jun 2010 10:09  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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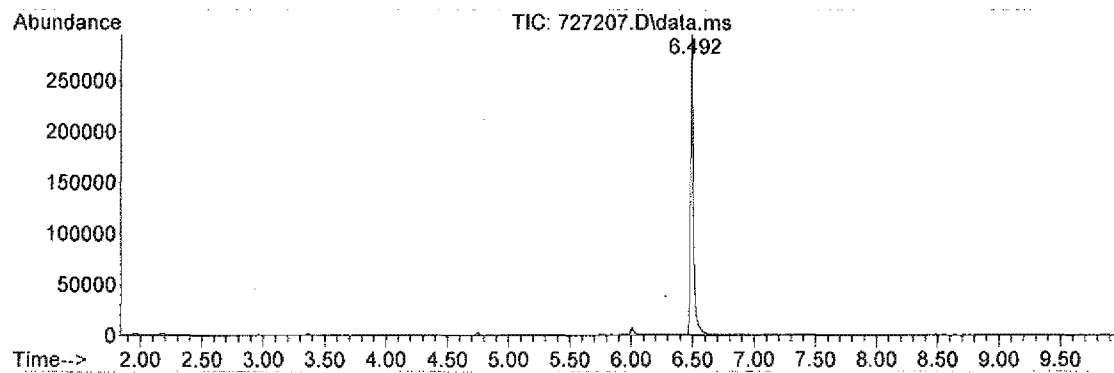
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

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File Name : F:\Q2-2010\System7\06\_24\_10\727207.D  
 Operator : DCS  
 Date Acquired : 24 Jun 2010 10:21  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 7  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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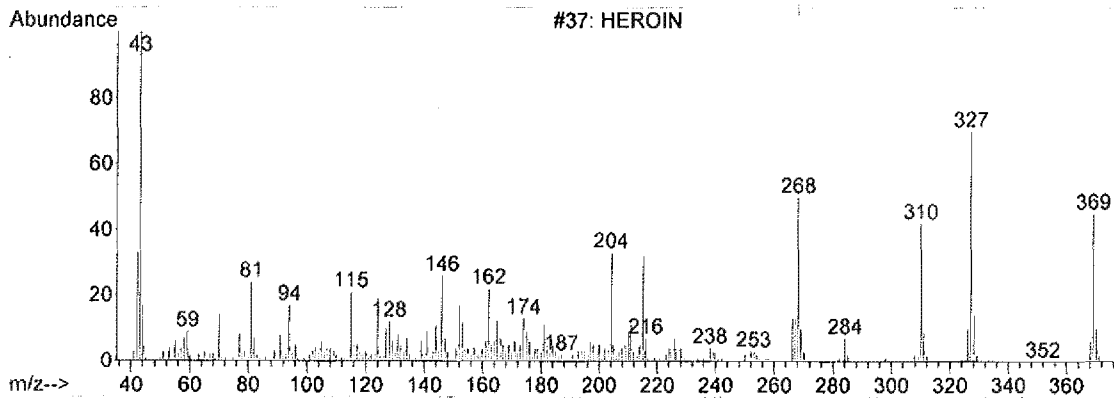
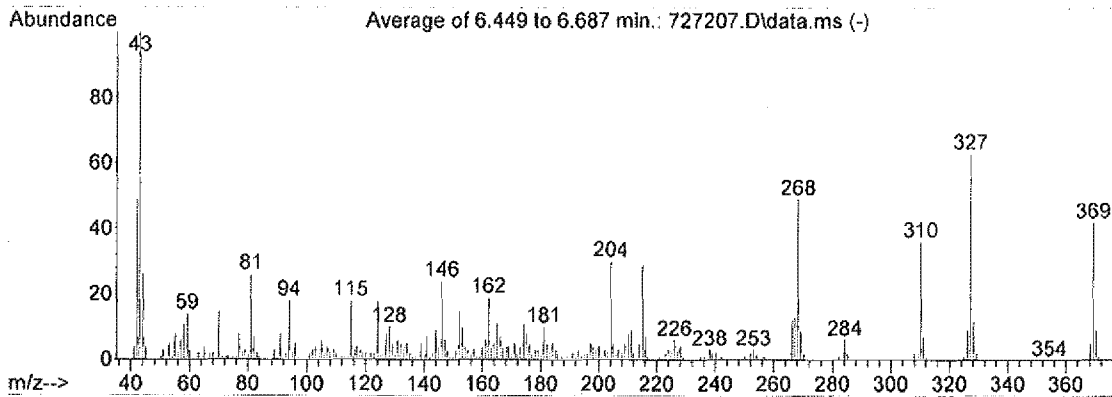
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 Date Acquired : 24 Jun 2010 10:21  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 7  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

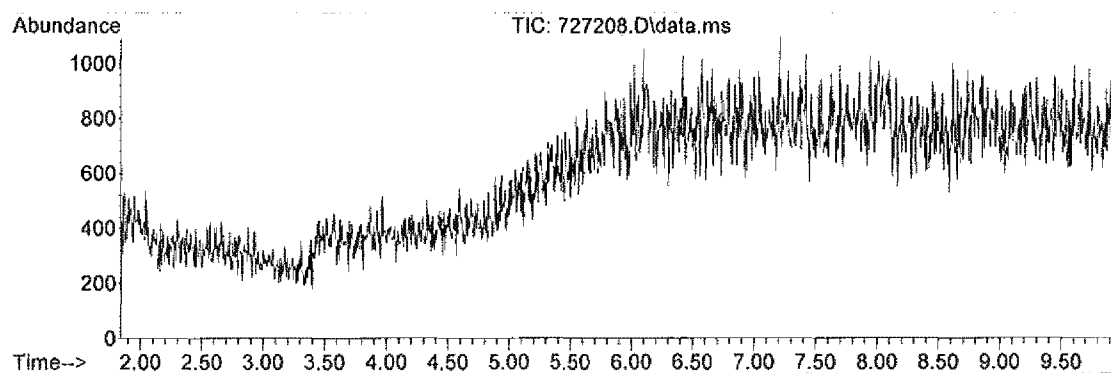
PK#	RT	Library/ID	CAS#	Qual
1	6.49	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		HEROIN	000561-27-3	99



# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2010\System7\06\_24\_10\727208.D  
 Operator : DCS  
 Date Acquired : 24 Jun 2010 10:34  
 Sample Name : BLANK  
 Submitted by : ASD  
 Vial Number : 1  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



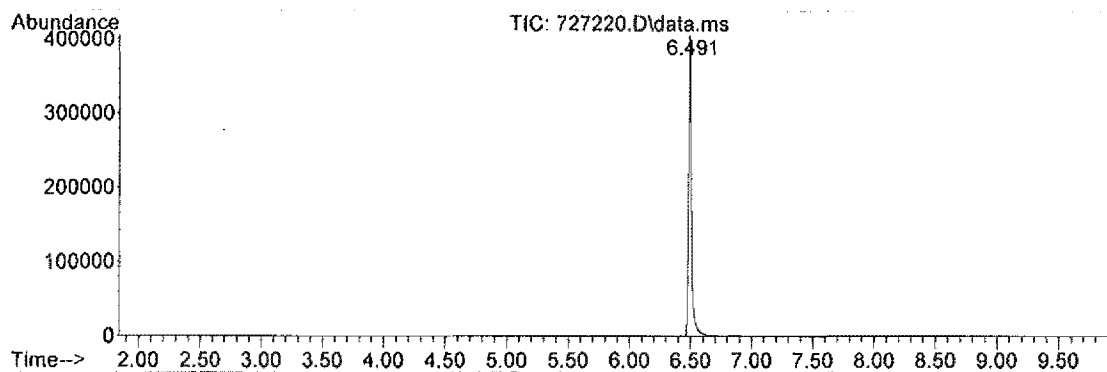
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

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 Operator : DCS  
 Date Acquired : 24 Jun 2010 13:07  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 20  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.491	673083	100.00	100.00

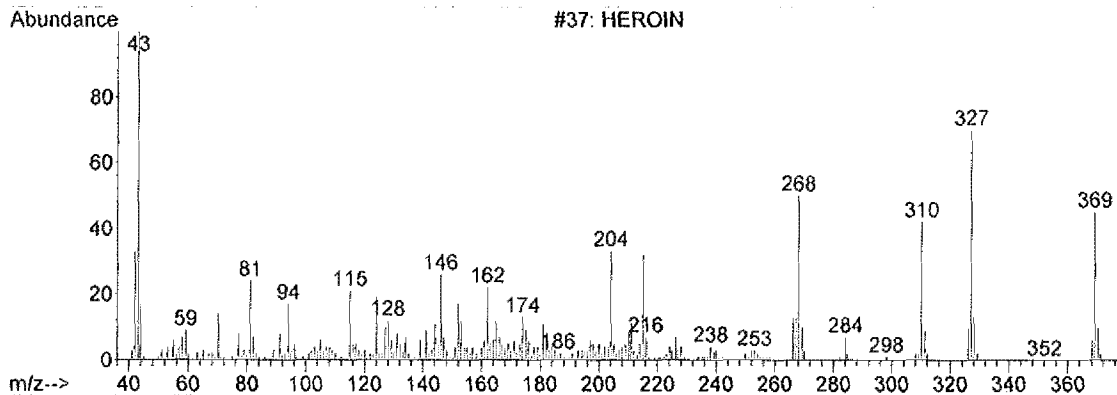
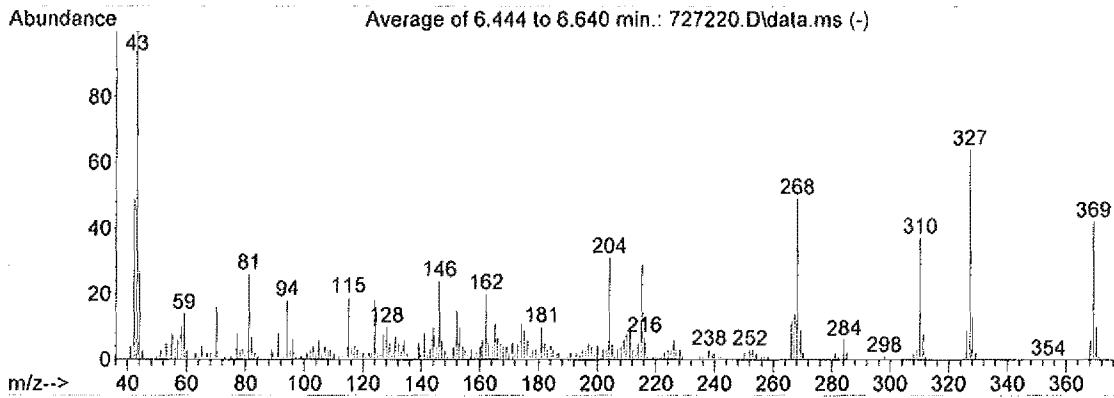
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**Information from Data File:**

File Name : F:\Q2-2010\System7\06\_24\_10\727220.D  
 Operator : DCS  
 Date Acquired : 24 Jun 2010 13:07  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 20  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.49	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		HEROIN	000561-27-3	99



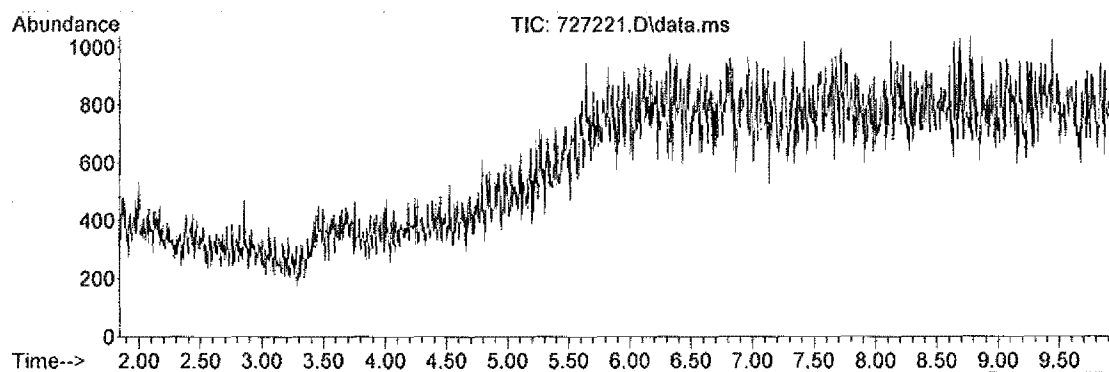
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q2-2010\System7\06\_24\_10\727221.D  
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Date Acquired : 24 Jun 2010 13:20  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*